

RF Exposure Report

Report No.: SABHKO-WTW-P21090237

FCC ID: 2AUS4-NFD1

Test Model: NF-D1

Received Date: 2021/9/8

Test Date: 2021/9/10 ~ 2021/11/1

Issued Date: 2021/11/15

Applicant: Neatframe AS

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
2.4 Antenna Gain	6
2.5 Calculation Result Of Maximum Conducted Power	6

Release Control Record

Issue No.	Description	Date Issued
SABHKO-WTW-P21090237	Original release.	2021/11/15

1 Certificate of Conformity

Product: Neat Bar Pro

Brand: neat.

Test Model: NF-D1

Sample Status: Engineering sample

Applicant: Neatframe AS

Test Date: 2021/9/10 ~ 2021/11/1

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

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Date: 2021/11/15

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Date: 2021/11/15

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2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Function	Antenna Type	Antenna Connector	Gain (dBi)			Remark
			Ant. 1	Ant. 2	Ant. 3	
BT LE	PCB	ipex	3.64	3.01	-	Ant. 1 and Ant. 2 diversity
BT EDR	PCB	ipex	3.64	3.01	-	
WLAN 2.4GHz	PCB	ipex	3.64	3.01	-	-
WLAN 5GHz	PCB	ipex	4.27	3.69	-	-
mmWave	Microstrip antenna (antenna array)	N/A	-	-	10	-

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.5 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	21.09	3.64	20	0.0591	1
WLAN	5180-5240	18.34	4.27	20	0.0363	1
WLAN	5260-5320	18.57	4.27	20	0.0383	1
WLAN	5500-5700	18.64	4.27	20	0.0389	1
WLAN	5745-5825	18.92	4.27	20	0.0415	1
BT LE	2402-2480	4.38	3.64	20	0.0013	1
BT EDR	2402-2480	4.38	3.64	20	0.0013	1

Function	Freq. (MHz)	Field Strength Of Fundamental (dBuV/m)	EIRP (dBm)	EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
mmWave	24066.5278	106.7	11.47	14.028	0.00279	1

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- WLAN 2.4GHz & WLAN 5GHz & Bluetooth & mmWave technologies cannot transmit at same time.
- Output power EIRP (dBm) = Field Strength (dBuV/m)@3m - 95.23, Output power EIRP (mW) = $10^{\frac{\text{power (dBm)}}{10}}$.

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